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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/647,445	08/26/2003	Kil-soo Jung	1293.1994	1650
49455 7590 05/27/2009 STEIN MCEWEN, LLP 1400 EYE STREET, NW SUITE 300 WASHINGTON, DC 20005				
EXAMINER CHIO, TAT CHH				
ART UNIT 2621		PAPER NUMBER		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/647,445

Applicant(s)

JUNG ET AL.

Examiner

TAT CHI CHIO

Art Unit

2621

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 10 March 2009.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,3-9 and 11-21 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,3-9 and 11-21 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-8508)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 2/10/2009 has been entered.

Response to Arguments

2. Applicant's arguments filed 2/10/2009 have been fully considered but they are not persuasive.

Applicant argues that Lamkin does not teach the ENAV engine refrains from informing the AV playback engine of the occurrence of the key input event

In response, the examiner respectfully disagrees. In response, the examiner respectfully disagrees. Since the navigation buttons, up, left, right, and down, do not work for DVD navigation unless video is playing in full-screen, Lamkin teaches the limitation "a second event information to prohibit informing the AV playback engine, which decodes the AV data, of the occurrence of the key input event". The examiner deems that "when video is not playing in full-screen" is a second event information. When the second event information occurs, the navigation buttons do not work. Therefore, it prohibits informing the AV playback engine of the occurrence of the key input event since the input buttons do not work at all.

Applicant argues that Lamkin does not teach the prohibiting occurs when a second event occurs using second event information recorded in the markup document.

In response, the examiner respectfully disagrees. Lamkin teaches that the navigation buttons, up, left, right, and down, in one embodiment, do not work for DVD navigation unless video is playing a full-screen mode. The examiner deems that "when video is not playing a full-screen mode" is a second event. Therefore, when the video is not playing a full-screen mode (second event), the navigation buttons do not work and therefore, the key input event will not be informed to the AV playback engine by the ENAV engine based on the second event.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1, 3-9, 11, and 12-21 are rejected under 35 U.S.C. 102(e) as being anticipated by Lamkin et al. (US 7,178,106 B2).

Consider claims 1 and 12, Lamkin et al. teach a computer-readable information storage medium comprising: AV data (Fig. 7); and a markup document utilized to reproduce the AV data in an interactive mode, wherein the markup document comprises first event information that, when read by an ENAV engine, causes the ENAV engine to inform, by default, an AV playback engine, which plays back the AV data, of an occurrence of a key input event corresponding to a user action (col. 19, lines 44-47), and second event information that, when read by an ENAV engine, causes the ENAV engine to prohibit informing the AV playback engine, which decodes the AV data, of the occurrence of the key input event (Table A.1.41 and col. 19, lines 51-54); and wherein the first event information comprises event registration information to check whether the user performed the action and event handling information to handle the event by controlling an operation of the AV playback engine when the key input event occurs (Table A.1.41).

Consider claim 3, Lamkin et al. teach the computer-readable information storage medium, wherein the event registration information is recorded using an on-click event defined in the markup document, and the event handling information is created by a function that allows the AV playback engine to perform an operation corresponding to the on-click event (col. 8, lines 46-59).

Consider claim 4, Lamkin et al. teach the computer-readable information storage medium of claim 2, wherein the event registration information is recorded using a key input event listener to check whether the key input event occurs, and the event

handling information is recorded using a key input event handler to control the operation of the AV playback engine (col. 8, lines 46-59 and Table A.1.41).

Consider claim 5, Lamkin et al. teach the computer-readable information storage medium, wherein the AV playback engine is informed of the occurrence of the key input event via an ENAV engine that interprets and executes the markup document (col. 11, lines 56-67 and col. 12, lines 1-15).

Consider claim 6, Lamkin et al. teach the computer-readable information storage medium, wherein the AV playback engine is informed of the occurrence of the key input event via an interface handler in an ENAV engine that interprets and executes the markup document (702 and 704 of Fig. 7).

Consider claim 7, Lamkin et al. teach the computer-readable information storage medium, wherein the interface handler transmits a playback control command to implement a predetermined operation of the AV playback engine corresponding to the key input event (col. 19, lines 44-47).

Consider claim 8, Lamkin et al. teach the computer-readable information storage medium, wherein the first event information is written using at least one of script language and markup language (col. 19, lines 44-47).

Consider claim 9, Lamkin et al. teach the computer-readable information storage medium, wherein the first event information is written using at least one of JavaScript language and XML language (740 of Fig. 7).

Consider claim 11, Lamkin et al. teach the computer-readable information storage medium, wherein the second event information is recorded using an Application Program Interface (API) (col. 11, lines 56-67 and col. 12, lines 1-15).

Consider claim 13, Lamkin teaches a method of handling a user input in an interactive mode in which played back AV data is displayed with a markup document, the method comprising: when a key input event corresponding to a user action occurs, informing an ENAV engine, which interprets and executes the markup document, of the occurrence of the key input event (742, 410, 702, 704, 706, 708, 710, 712, 714, and 716 of Fig. 7); informing, by default, by the ENAV engine, an AV playback engine, which plays back the AV data, of the occurrence of the key input event (422, 426, and 734 of Fig. 7); and prohibiting, when a second event occurs using second event information recorded in the markup document, the AV playback engine from being informed of the occurrence of the key input event (col. 19, lines 44-47 and lines 51-54); wherein the informing of the ENAV engine of the occurrence of the key input event comprises creating the key input event using the first event information recorded in the markup document (col. 11, lines 56-66), the informing of the AV playback engine of the occurrence of the key input event comprises transmitting a playback control command corresponding to the key input event to the AV playback engine to handle the key input event (col. 10, lines 4-8), and the markup document includes event registration information to check whether the user performed the user action (Table A.1.41).

Consider claim 14, Lamkin teaches the method, wherein: the informing of the ENAV engine of the occurrence of the key input event comprises creating the key input

event using an onclick event that occurs by clicking on a button made in the markup document, the onclick event being the first event information recorded in the markup document (col. 11, lines 56-66), and the informing of the AV playback engine of the key input event comprises transmitting a playback control command corresponding to the onclick event to the AV playback engine to handle the onclick event (col. 10, lines 4-8).

Consider claim 15, Lamkin teaches the method, wherein: the prohibiting comprises creating the second event according to the second event information which is recorded using an Application Program Interface (API) (Table A.1.41).

Consider claim 16, Lamkin teaches the method further comprising: controlling the markup picture in correspondence with a third event which occurs according to a third event information recorded in the markup document (col. 19, lines 58-59).

Consider claim 17, Lamkin teaches an apparatus to reproduce AV data in an interactive mode, the apparatus comprising: an AV playback engine that plays back the AV data (422, 426 and 734 of Fig. 7); and an ENAV engine that interprets and executes a markup document (742, 410, 702, 704, 706, 708, 701, 712, 714, and 716 of Fig. 7); wherein, when a key input event corresponding to a user action occurs, the ENAV engine informs, by default, the AV playback engine of the occurrence of the key input event, and allows the key input event to occur using first event information written in the markup document (col. 19, lines 44-47), which includes event registration information to check whether the user performed the action (Table A.1.41); and wherein, when a second event occurs, the ENAV engine refrains from informing the AV playback engine

of the occurrence of the key input event based on second event information recorded in the markup document (col. 19, lines 51-53).

Consider claim 18, Lamkin teaches the apparatus, wherein the ENAV engine generates an API command to control the AV playback engine, in response to the key input event corresponding to the user action (col. 11, lines 55-66).

Consider claim 19, Lamkin teaches the apparatus, wherein, when the key input event occurs using the first event information, the ENAV engine transmits a playback control command corresponding to the key input event to the AV playback engine to handle the key input event (col. 11, lines 54-67 and col. 12, lines 1-15).

Consider claim 20, Lamkin teaches the apparatus, wherein when an onclick event occurs using the first event information, the ENAV engine transmits a playback control command corresponding to the onclick event to the AV playback engine to handle the onclick event (col. 19, lines 44-47).

Consider claim 21, Lamkin teaches the apparatus, wherein the ENAV engine comprises an interface handler that informs the AV playback engine of the occurrence of the key input event (702 of Fig. 7).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TAT CHI CHIO whose telephone number is (571)272-9563. The examiner can normally be reached on Monday - Thursday 9:00 AM-5:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thai Tran can be reached on (571)-272-7382. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/T. C. C./
Examiner, Art Unit 2621

/Thai Tran/
Supervisory Patent Examiner, Art Unit 2621